MEAN WELL SWITCHING POWER SUPPLY

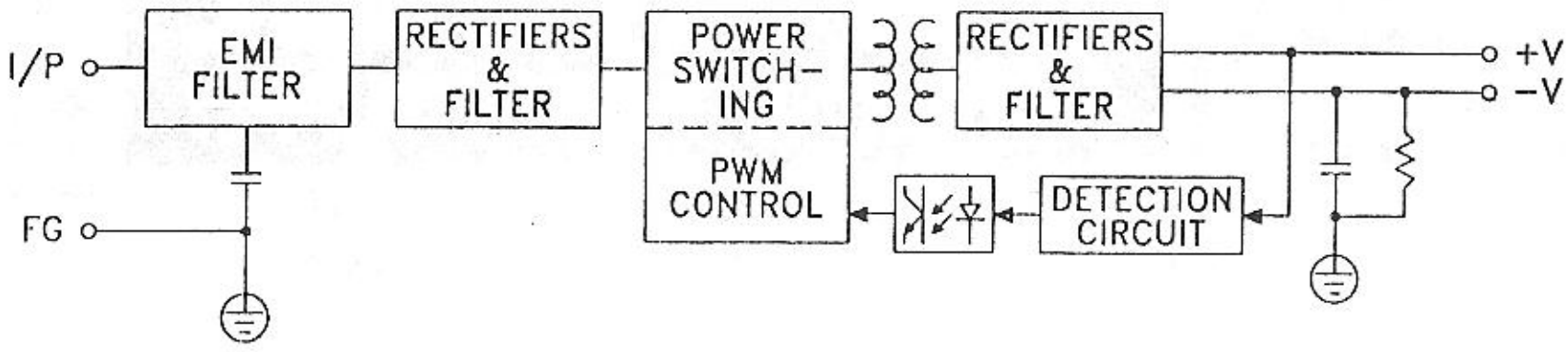
PS-25 SERIES

- LOW COST, HIGH RELIABILITY
- COMPACT SIZE, LIGHT WEIGHT
- 105℃ OUTPUT CAPACITOR
- 100% FULL LOAD BURN-IN TEST
- INTERNATIONAL AC INPUT RANGE
- BUILT IN EMI FILTER, LOW RIPPLE NOISE
- HIGH EFFICIENCY, LOW WORKING TEMPERATURE
- SOFT-START CIRCUIT, LIMITING AC SURGE CURRENT
- SHORT CIRCUIT, OVERLOAD PROTECTED

MODEL / SPECIFICATION	PS-25-3.3	PS-25-5	PS-25-7.5	PS-25-12	PS-25-13.5	PS-25-15	PS-25-24	PS-25-27	PS-25-48
DC OUTPUT VOLTAGE	3.3V	5V	7.5V	12V	13.5V	15V	24V	27V	48V
OUTPUT V. TOLERANCE	±3%	±2%	±2%	±2%	±2%	±2%	±2%	±2%	±2%
OUTPUT RATED CURRENT	5A	5A	3.3A	2.1A	1.9A	1.7A	1A	0.9A	0.5A
OUTPUT CURRENT RANGE	0-5A	0-5A	0-3.3A	0-2.1A	0-1.9A	0-1.7A	0-1A	0-0.9A	0-0.5A
RIPPLE & NOISE [2]	80mVp-p	80mVp-p	80mVp-p	100mVp-p	100mVp-p	100mVp-p	100mVp-p	100mVp-p	240mVp-p
LINE REGULATION [3]	±0.5%	±0.5%	±0.5%	±0.3%	±0.3%	±0.3%	±0.2%	±0.2%	±0.2%
LOAD REGULATION [4]	±2.5%	±2%	±2%	±1%	±1%	±1%	±0.5%	±0.5%	±0.5%
DC OUTPUT POWER	16.5W	25W	24.8W	25.2W	25.7W	25.5W	24W	24.3W	24W
EFFICIENCY	66%	74%	76%	78%	78%	78%	79%	79%	79%
DC VOLTAGE ADJ.	----------								
INPUT VOLTAGE RANGE	85～264VAC								
INPUT FREQUENCY	47～63Hz								
AC CURRENT	0.65A/115V　0.4A/230V								
INRUSH CURRENT	COLD START　40A								
OVERLOAD PROTECTION	ABOVE 105%　TYPE:FOLDBACK CURRENT SHUTDOWN　RECOVERY:AUTO								
OVER VOLTAGE PROTECTION	115%～135%								
OVER TEMP. PROTECTION	U1 Tj 135℃ TYPICALLY　POWER SHUTDOWN								
TEMP. COEFFICIENT	±0.03% / ℃ (0～50℃)								
SETUP, RISE, HOLD UP TIME	200ms, 30ms, 17ms/115VAC　200ms, 20ms, 80ms/230VAC								
VIBRATION	10～500Hz:2G 3AXES 10min./1cycle (1 HOUR / EACH AXES)								
WITHSTAND VOLTAGE [5]	I/P-O/P:3KV　I/P-FG:1.5KV　1min.								
WORKING TEMP., HUMIDITY	-10℃～+60℃, 20%～90% RH　(REFER TO OUTPUT DERATING CURVE)								
STORAGE TEMP., HUMIDITY	-20℃～+85℃, 10%～95% RH								
DIMENSION	107＊61＊30mm								
WEIGHT	0.15Kgs								
SAFETY STANDARDS	UL1950, TUV EN60950 APPROVED								
EMC STANDARDS	MEET CISPR22 (EN55022) CLASS B								

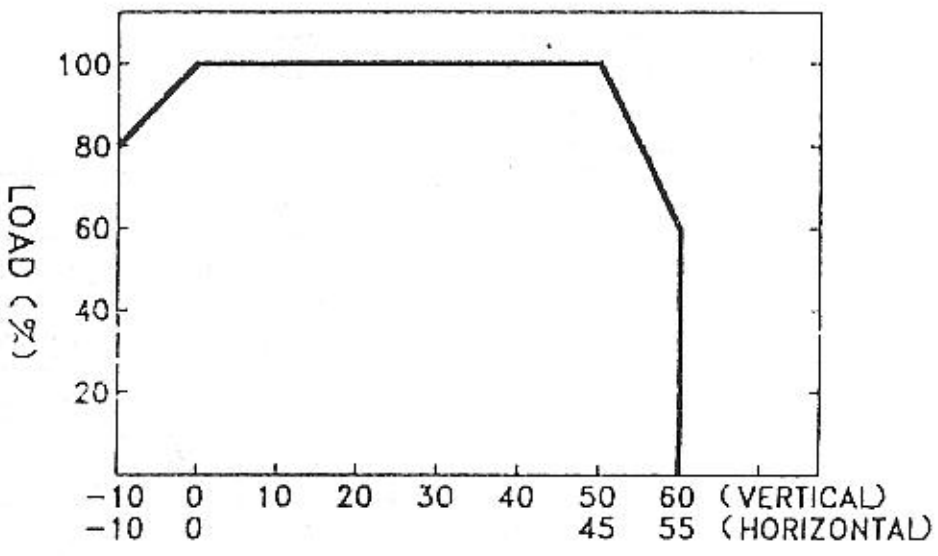
NOTE : 1.ALL PARAMETERS ARE SPECIFIED AT 230VAC INPUT, RATED LOAD, 25℃ AMBIENT.
2.RIPPLE & NOISE ARE MEASURED AT 20MHz BY USING A 12" TWISTED PAIR TERMINATED WITH A 0.1uF & 47uF CAPACITOR.
3.LINE REGULATION IS MEASURED FROM LOW LINE TO HIGH LINE AT RATED LOAD.
4.LOAD REGULATION IS MEASURED FROM 0% TO 100% RATED LOAD.
5.C2, C3, C26, C28 MUST BE REMOVED.

BLOCK DIAGRAM

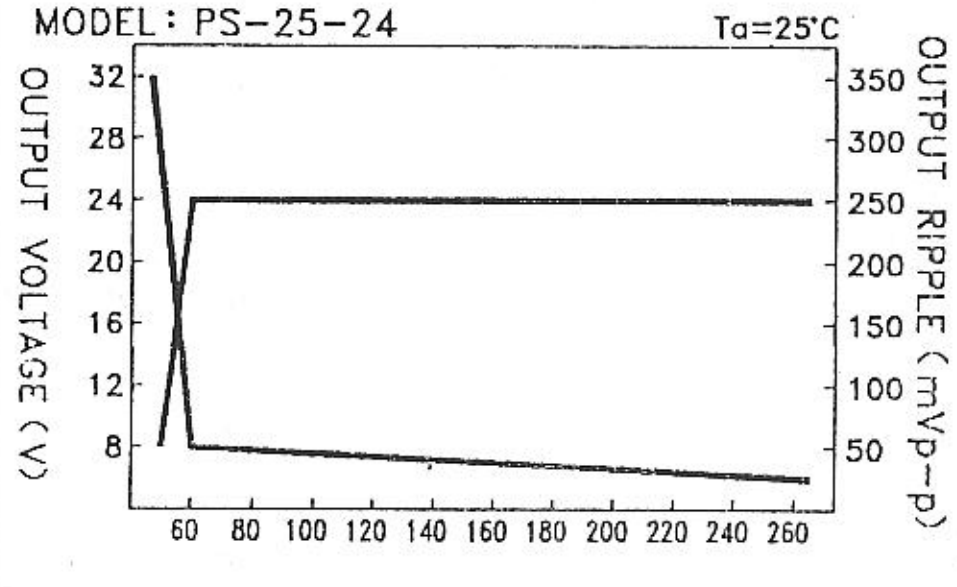


fosc : 100KHz

OUTPUT DERATING



STATIC CHARACTERISTICS



DIMENSION:mm[inch]

- TERMINAL PIN NO. ASSIGNMENT
  - CN1 : AC INPUT
  - CN2 : DC OUTPUT
    - PIN 1,2 : +V
    - PIN 3,4 : -V